No. B.V-7/2013-14-C(QRs)-(15) 389

Government of India/भारत सरकार

Ministry of Home Affairs/गृह मंत्रालय

Police Modernization Division/पुलिस आधुनिकीकरण प्रभाग

Prov.I Desk/संभरण-I डेस्क

26, Mansingh Rroad, Jaisalmer House,
New Delhi, the 17th February, 2014

To,

DsG : AR(Through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D

Subject : QRs and Trial Directives of sealed maintenance free value regulated lead acid battery.

The QRs and Trial Directives in respect of sealed maintenance free value regulated lead acid battery as per Annexure-I and Annexure-II respectively have been approved by the Competent Authority in MHA.

2. Henceforth, all the CAPFs should procure the above items required by them strictly as per the laid down QRs/Specifications.

Issued 18/2/2014

Yours faithfully,

(Smt. S B Nanda)
Under Secretary(Prov.I)

Encl : As above.

Copy forwarded to SO(IT) with the request to host the QRs and Trial Directives of sealed maintenance free value regulated lead acid battery on the website of MHA (under the page of organizational set up Police Modernization Division - Qualitative Requirement), soft copy is being sent through email.

(R K Soni)
Section Officer(Prov.I)

Copy to DDG(Proc.)

Copy for information to PPS to JS(PM)

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Annex-I

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QRs/SPECIFICATION OF SEALED MAINTENANCE FREE (VRLA) BATTERY

Sl. No	SPECIFICATION	PARAMETERS
1	**Type of Battery Chemistry**	SMF VRLA (Sealed Maintenance Free- Valve Regulated lead Acid)
2	**Nominal Capacity**	7 to 200AH @ C/20 rating (Capacity of battery will be decided by user during procurement as per their requirement)
3	**Nominal Voltage**	12V
4	**Container/ Cover Material**	The battery container and casing should make of PC/ PC+ABS/ ABS blend or newly developed better material.
5	**Weight**	As per JISC 8702 or IEC 60896-21/22 latest or similar to weight of branded manufacturer battery of rated capacity.
6	**Dimension and Marking**	As per JISC 8702 or IEC 60896-21/22 latest or similar to size of branded manufacturer battery of rated capacity.
7	**Terminal type**	As per JISC or IEC 60896-21/22 or any standard.
8	The quoted battery should full fill the following specifications as per the JISC (**Japanese Industrial Standards Committee**) 8702/1998 or IEC 60896-21/22 latest or any equivalents standard. i) General Requirements ii) Capacity Tests iii) High rate discharge test iv) Endurance in cycle v) Charge retention vi) Endurance in trickle application vii) Gas recombination viii) Resistance to vibration ix) Resistance to shocks. x) Max. Permissible current	
9	**At least the following items shall be adequately designated on the battery:-** i) Type designation ii) Nominal voltage iii) Rated Capacity iv) Month & Year of Manufacturer. v) Supplier name and/or trade mark vi) The battery shall carry a marking of polarity of both terminals by plus symbol (+) and minus symbol (-) on the lid adjacent to the terminals. vii) Additional data such as recommended charging voltage, charging current, capacity at other discharge rates, battery mass and other instructions shall be supplied with the battery.	

(M.S Yadav, AC (Tech), CRPF) (D.K.Bhatt, Asstt Comdt, SSB) (Gurbachan Singh, SSO (E), BPR&D)

(Sunil Kumar, DC (Comn), ITBP) (Major Kapil Dahiya, TC(Eqpt), NSG) (S.K.Singh, Comdt(C-Eqpt), BSF)

(Virendra Agrawal, DIG(Eqpt), CRPF) (Shailendra Kumar, IG (Comn), CRPF)

APPROVED/NOT APPROVED

(Pranay Sahay, IPS)
DG, CRPF

Annex-II

TRIAL DIRECTIVE OF SEALED MAINTENANCE FREE (VRLA) BATTERY

Trial/Testing of Sealed Maintenance Free Valve Regulated Lead Acid Battery will be conducted by a Board of Officers in the presence of representative of Firms to assess actual performance of the Battery.

2) All parameter / Specifications mentioned in the QRs will be checked by board of officers by ascertaining /verifying following checks.

Physical Check: In this category specifications of equipment will be checked physically as per QRs.

Functional Check:- The vendors will show all features/ configuration of the equipment to the board of officers during technical evaluation.

Submission of certificate: - Specification which cannot be checked due to lack of testing facilities/ expertise, a certificate of test shown against each will be provided by firm during physical trial of equipment.

Sl. No	SPECIFICATION	PARAMETERS	TRIAL PROCEDURE
1	Type of Battery Chemistry	SMF VRLA – LEAD ACID	The board will check it physically and supplier shall furnish complete & satisfactory type test certificate from Govt. of India laboratory as per JISC 8702 or IEC latest standard for these batteries.
2	Nominal Capacity	7 to 200AH @ C/20 rating (Capacity of battery will be decided by users during procurement as per their requirement)	The board will carry out the rated capacity test and high discharge characteristic with the help of standard testing instruments as per JISC 8702 / IEC latest standard for these battery.
3	Nominal Voltage	12V	The board will ensure that voltage of battery is as per specification by measuring with the help of standard measuring instrument.
4	Container/ Cover Material	The battery container and casing should make of PC/ PC+ABS/ ABS blend (Acrylonitrile Butadiene Styrene) or newly developed better material.	The board will check it physically as well as firm will provide certificate about material used in battery housing.
5	Weight	As per JISC 8702 or IEC 60896-21/22 latest or similar to weight of branded manufacturer battery of rated capacity.	The board will measure weight of battery with the help of weighing machine and ensure that it is as per JISC8702 / IEC standards or similar of branded manufacturer battery of rated capacity.
6	Dimension and Marking	As per JISC8702 or IEC 60896-21/22 latest or similar to size of branded manufacturer battery of rated capacity.	The board will check the dimension and marking and ensure that it is as per JISC8702 / IEC latest standards or similar of branded manufacturer battery of rated capacity.
7	Terminal type	As per JISC 8702 or IEC 60896-21/22 or any international standard.	The board will check physically that Terminal of battery is as per JISC 8702/ IEC latest standards.

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8	The quoted battery should full fill the following specifications as per the JISC 8702/1998 or IEC 60896-21/22 latest or any equivalent standard. i) General Requirements ii) Capacity Tests iii) High rate discharge test iv) Endurance in cycle v) Charge retention vi) Endurance in trickle application vii) Gas recombination viii) Resistance to vibration ix) Resistance to shocks. x) Max. Permissible current	Firm will produce Test Report of the all parameter shown under para-8 (i to x) as per JISC 8702 /IEC latest standard for these batteries from Govt. of India approved laboratory. Board will check these certificates and will ensure that test report is complying above standards.
9	**At least the following items shall be adequately designated on the battery:-** i) Type designation ii) Nominal voltage iii) Rated , Capacity iv) Month & Year of Manufacturer. v) Supplier name and/or trade mark vi) The battery shall carry a marking of polarity of both terminals by plus symbol(+) and minus symbol (-) on the lid adjacent to the terminals. vii) Additional data such as recommended charging voltage, charging current, capacity at other discharge rates, battery mass and other instructions etc shall be supplied with the battery in a suitable way.	The board will check it physically that label of battery is as per specification.

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